

FIG. 1

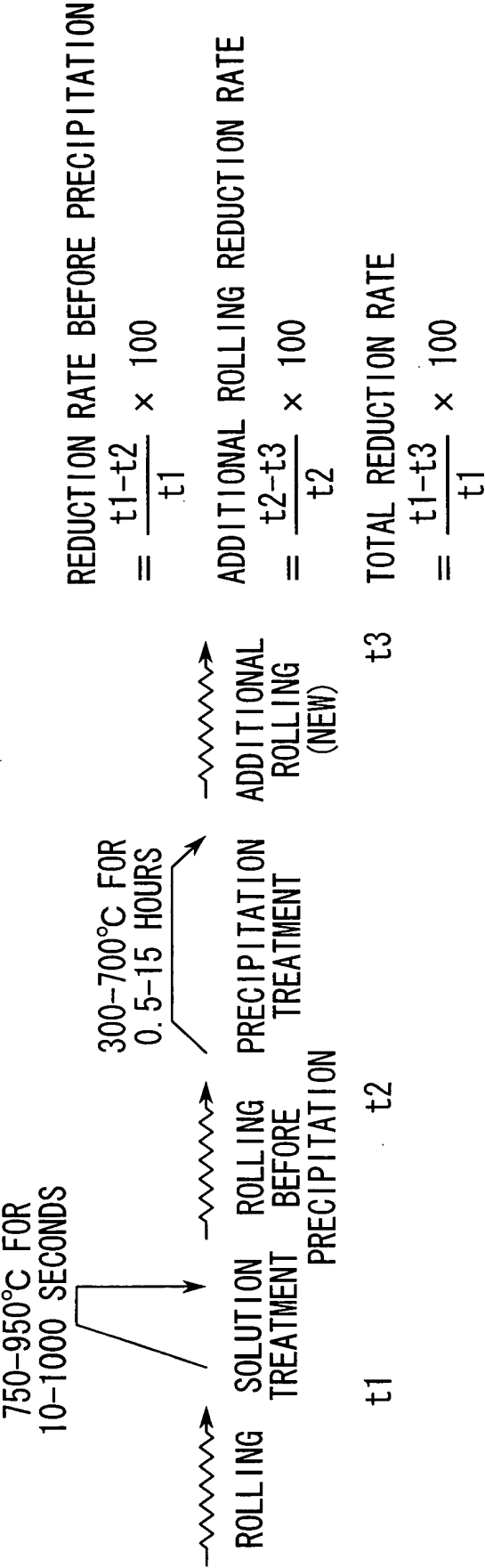


FIG. 2

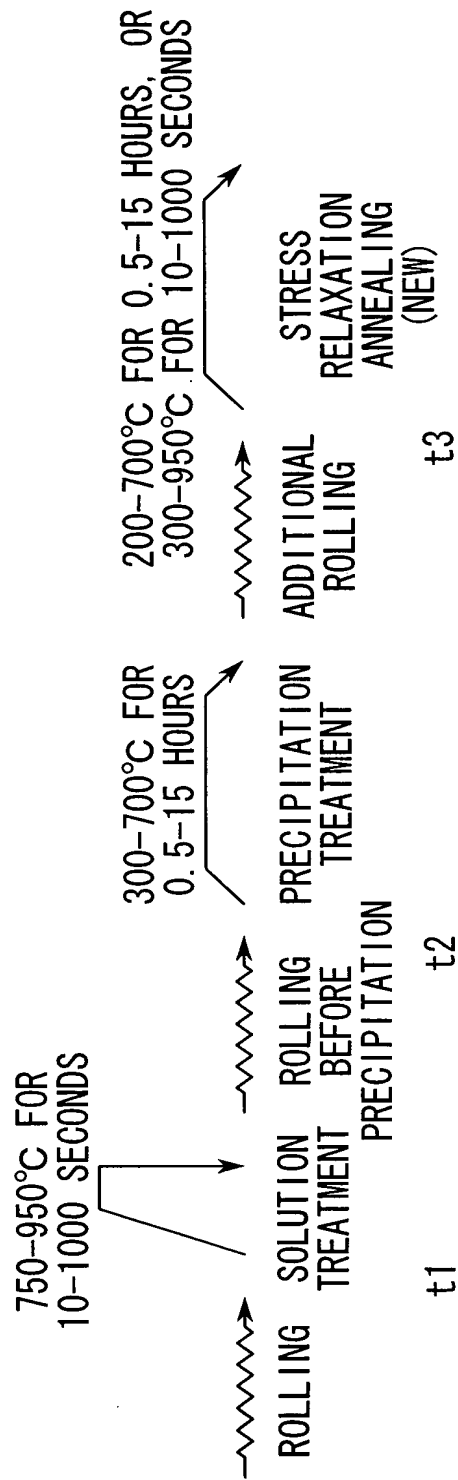


FIG. 3

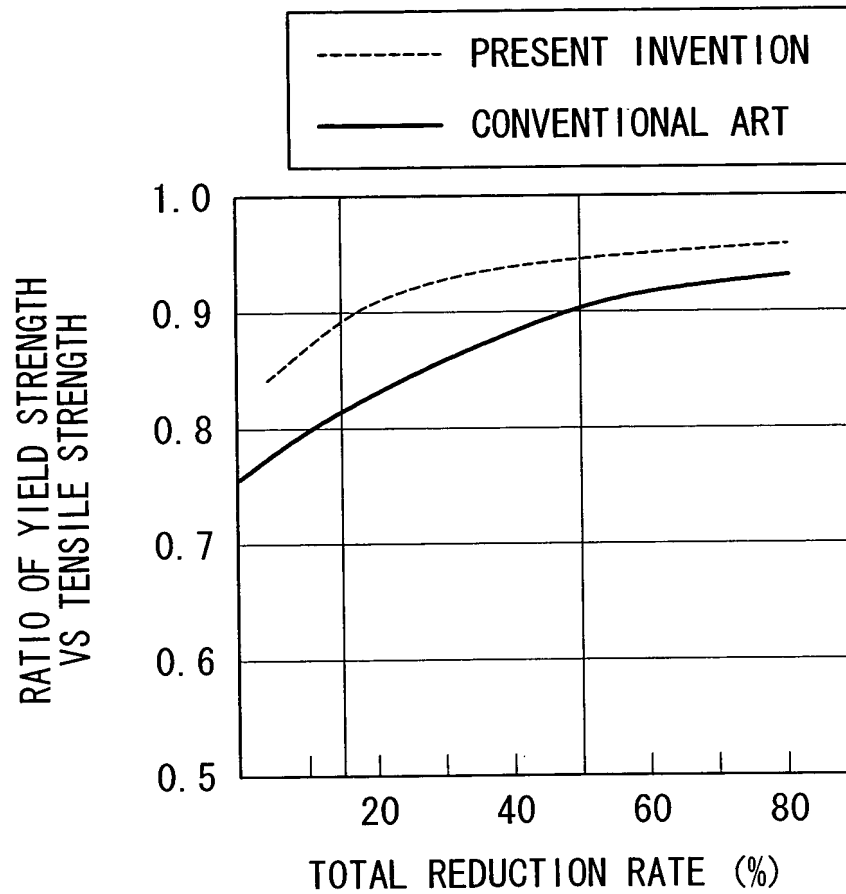


FIG. 4

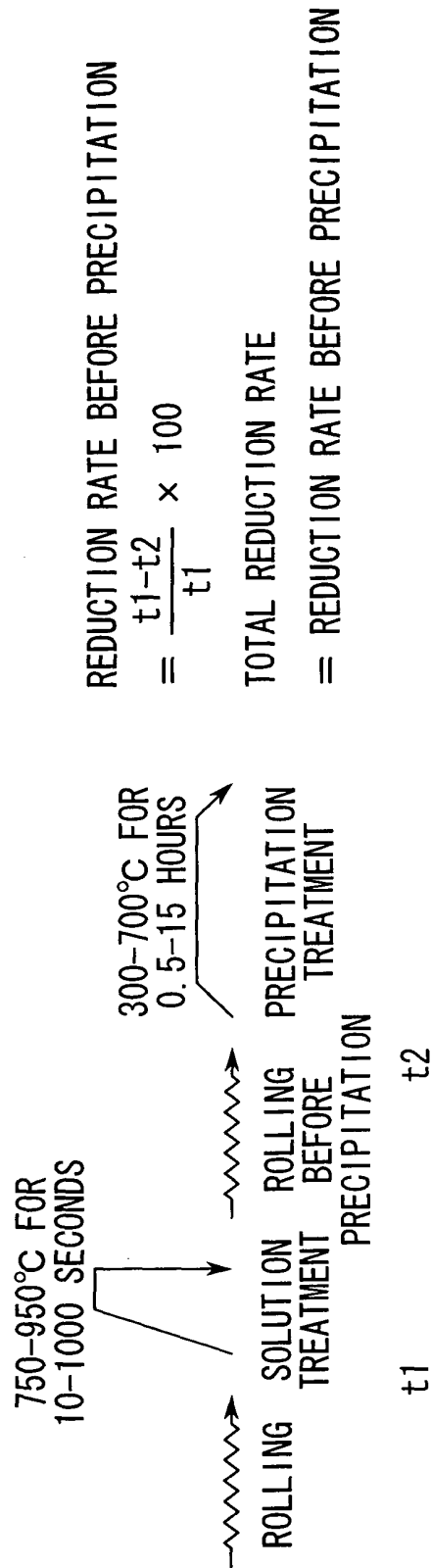


FIG. 5

No.	COMPOSITION		PROCESS CONDITIONS			
	Ti (%)	REDUCTION RATE (%) OF ROLLING BEFORE PRECIPITATION	ADDITIONAL ROLLING REDUCTION RATE (%)	TOTAL REDUCTION RATE (%)	STRESS RELAXATION ANNEALING	
EMBODIMENT	1	3.1	15.8	5	20	-
	2	2.9	10	11.1	20	-
	3	3.2	0	30	30	-
	4	3.0	20	12.5	30	-
	5	2.3	20	12.5	30	-
	6	1.1	20	12.5	30	-
	7	3.3	20	37.5	50	-
	8	2.9	10	11.1	20	350°C 3HR. (BATCH FURNACE)
	9	3.1	10	11.1	20	500°C 30SEC. (CONTINUOUS FURNACE)
	10	3.2	20	12.5	30	350°C 3HR. (BATCH FURNACE)
	11	3.0	20	37.5	50	350°C 3HR. (BATCH FURNACE)
COMPARATIVE EXAMPLE	12	3.2	8.2	2	10	-
	13	3.2	25	60	70	-
	14	3.2	10	0	10	-
	15	3.1	20	0	20	-
	16	2.9	30	0	30	-
	17	3.0	50	0	50	-
	18	3.3	70	0	70	-
	19	3.1	20	12.5	30	150°C 10HR. (BATCH FURNACE)
	20	2.9	20	12.5	30	400°C 20HR. (BATCH FURNACE)
	21	0.08	20	12.5	30	-
	22	4.8	20	12.5	30	-

FIG. 6

		TENSILE STRENGTH N/mm ²	YIELD STRENGTH N/mm ²	ELONGATION (%)	CONDUCTIVITY (%)	SPRING LIMIT VALUE N/mm ²	BEND FORMABILITY	STRESS RELAXATION (%)	RATIO OF YIELD STRENGTH VS TENSILE STRENGTH
EMBODIMENT	1	1001	907	17.8	12.7	315	○	5.7	0.91
	2	989	896	8.7	12.9	331	○	5.1	0.91
	3	1049	982	3.0	13.0	492	○	6.2	0.94
	4	1043	976	3.2	12.6	529	○	5.7	0.94
	5	875	811	4.3	16.8	378	○	6.2	0.93
	6	672	624	4.7	18.8	254	○	6.9	0.93
	7	1138	1076	2.3	12.6	372	○	7.4	0.95
	8	990	892	13.0	13.8	813	○	3.5	0.90
	9	986	886	12.4	12.8	832	○	5.5	0.90
	10	1040	970	4.3	13.8	903	○	3.9	0.93
	11	1130	1067	3.2	13.4	1084	○	4.7	0.94
COMPARATIVE EXAMPLE	12	902	792	19.4	13.5	263	○	5.2	0.88
	13	1224	1161	1.2	9.7	672	○	8.9	0.95
	14	804	442	25.7	13.4	703	REF.	4.8	0.55
	15	897	718	20.4	13.8	821	REF.	5.2	0.80
	16	928	803	16.2	13.5	877	REF.	5.9	0.87
	17	1011	902	11.7	12.7	982	REF.	7.6	0.89
	18	1066	985	1.8	11.6	1045	REF.	8.5	0.92
	19	1035	972	3.1	13.2	559	○	5.8	0.94
	20	987	867	8.6	17.5	418	×	7.9	0.88
	21	563	467	6.7	18.9	211	○	15.4	0.83
	22	727	648	0.9	5.7	496	×	7.5	0.89